Product Updates and Service Improvements from the Storm Prediction Center (SPC)

Jared L. Guyer and Greg W. Carbin
NOAA/NWS Storm Prediction Center
Norman, OK

spc.noaa.gov

E-mail: Jared.Guyer@noaa.gov

National Severe Weather Workshop
March 1-3, 2012

Where Americas Climate and Weather Services Begin

Storm Prediction Center

- Improvements and new web features related to the communication of high-impact weather threats
  - Available on the SPC website: **spc.noaa.gov**

- **Product format changes for Mesoscale Discussions and Day 4-8 Convective Outlook**
- **Web Tools to aid monitoring and decision support – SPC Mesoanalysis and SREF**
- **Facebook and Multimedia Briefings**
- **Post-Event and Preparedness Videos – *"What's a Watch?"***

Mesoscale Discussions

- **The SPC will soon increase information structure within its Mesoscale Discussions to more efficiently convey critical forecast information**

- Attributes common to the first paragraph of severe convective MDs will be provided in a standardized format
    - *Type of threat*
    - *Timing and evolution*
    - *Probability of watch issuance*

New Mesoscale Discussion Format

For Severe Potential MCDs (Pre-Watch)

TIME OF SEVERE STORMS...After [time to nearest hour] or "Ongoing"

PROBABILITY OF A WATCH ISSUANCE...XX%
[increments of 20% from 20-80%, with <5% and >95%]

Example: **<5 and 20% for Unlikely, 40% and 60% for Possible, 80% and >95% for Likely, >95% for Needed Soon**

SUMMARY...A concise one or two sentence headline regarding the forecast (mode, coverage, and intensity) severe threat.
(Similar to current first paragraph)

DISCUSSION...The description of significant mesoscale features and atmospheric processes which will likely result in the expected event.
(Similar to current main text body)

Example of New Pre-Watch MD Format

MESOSCALE DISCUSSION 2046
NWS STORM PREDICTION CENTER NORMAN OK
0247 AM CST TUE NOV 16 2010

AREAS AFFECTED...THE FL PANHANDLE

CONCERNING...SEVERE POTENTIAL...**WATCH POSSIBLE**

VALID 160847Z - 161115Z

TIME OF SEVERE STORMS...AFTER 10Z

PROBABILITY OF A WATCH ISSUANCE...**40 PERCENT**

SUMMARY...SHORT-LINE SEGMENT MAY GROW UPSCALE AND BRUSH COAST WITH ATTENDENT INCREASE IN SEVERE THREAT.

DISCUSSION...CONVECTIVELY ENHANCED BOUNDARY STRETCHES FROM SOUTH OF APALACHICOLA WWD AND INTERSECTS A NE-SW ORIENTED BAND OF THUNDERSTORMS EXTENDING FROM SOUTH OF GULF SHORES SWWD TO JUST OFF SERN TIP OF LA. ACTIVITY IS DEVELOPING WITHIN A PRE-FRONTAL CONFLUENCE ZONE ASSOCIATED WITH A STRENGTHENING SWLY LOW-LEVEL JET. THIS FEATURE WILL DEVELOP NWD THROUGH THE WRN FL PANHANDLE INTO AL AS PRIMARY SURFACE LOW DEEPENS AND LIFTS NWD INTO THE TN VALLEY IN RESPONSE TO FORCING ASSOCIATED WITH NEWD EJECTING VORT MAX. BUOY OBSERVATIONS SHOW A RESERVOIR OF 70F DEWPOINTS OVER THE NRN GULF SOUTH OF E-W BOUNDARY. THIS FEATURE WILL MOVE SLOWLY NWD AS THE LOW LEVEL JET STRENGTHENS...AND IS ALREADY APPROACHING THE COAST NEAR APALACHICOLA. REMAINING PORTIONS OF THE BOUNDARY WILL LIKELY NOT MOVE INLAND UNTIL AFTER 11Z. BOUNDARY LAYER DESTABILIZATION AND POTENTIAL FOR SURFACE BASED STORMS WILL INCREASE MARKEDLY WHERE THE MOIST WARM SECTOR MOVES ONSHORE....WHILE LARGE HODOGRAPHS ACCOMPANYING THE LOW-LEVEL JET WILL PROMOTE SEVERE POTENTIAL. HOWEVER...THE COASTAL BOUNDARY WILL MAKE ONLY LIMITED INLAND PROGRESS THIS MORNING SUGGESTING THE THREAT AREA SHOULD REMAIN SMALL.

..DIAL/MEAD.. 11/16/2010

Day 4-8 Convective Outlook

- **Likely that standardized headlines will soon be used to clearly highlight whenever a major widespread severe weather outbreak is forecast**
  - *Expectation of a high-end Day 4-8 area becoming Moderate Risk on Day 3 and eventually a Tornado High Risk by Day 1 (assuming the forecast scenario remains largely unchanged)*
  - *Used rarely – a few times a year?*

- Widespread tornado outbreak headline example:
  - **"Major Severe Weather Outbreak Possible on D4 /Thursday/" (or D4 /Thursday/ and D5 /Friday/)**

Example of Day 4-8 Standardized Headline

DAY 4-8 CONVECTIVE OUTLOOK
NWS STORM PREDICTION CENTER NORMAN OK
0350 AM CDT SUN APR 24 2011
VALID 271200Z - 021200Z

…MAJOR SEVERE WEATHER OUTBREAK POSSIBLE D4 /WEDNESDAY/…

...DISCUSSION... WIDESPREAD CONVECTIVE/SEVERE WEATHER EVENT -- ONGOING FROM THE DAY 3 /TUE. 4-26/ PERIOD -- IS LIKELY TO CONTINUE SPREADING EWD ACROSS THE OH/TN VALLEYS AND GULF COAST STATES DAY 4 /WED. 4-27/...AS MEDIUM-RANGE MODELS BOTH FORECAST EWD PROGRESSION OF THE LARGE CENTRAL U.S. TROUGH. AS THE COLD FRONT SHIFTS EWD TOWARD THE APPALACHIANS THROUGH THE AFTERNOON AND EVENING...PRE-FRONTAL WARM SECTOR FEATURIHNG MODERATE INSTABILITY AND STRONG DEEP-LAYER SHEAR WILL SUPPORT CONTINUATION/REDEVELOPMENT OF SEVERE STORMS INTO THE AFTERNOON AND EVENING. POTENTIAL FOR SUBSTANTIAL SEVERE WEATHER -- INCLUDING HAIL/WIND AND ISOLATED TORNADOES -- SUPPORTS CONTINUATION OF A LARGE SEVERE WEATER THREAT AREA FOR DAY 4. MODEL TIMING WITH RESPECT TO THE SURFACE FRONT AND ASSOCIATED UPPER TROUGH BEGINS TO DIFFER MORE SUBSTANTIALLY DAY 5 /THU. 4-28/...THUS CASTING SOME UNCERTAINTY WITH RESPECT TO LOCATION AND DEGREE OF THREAT E OF THE APPALACHIANS DAY 5. THEREFORE...WHILE POTENTIALLY SEVERE CONVECTION WILL LIKELY SPREAD ACROSS THE ATLANTIC COAST STATES SOMEWHERE BETWEEN LATE IN THE DAY 4 PERIOD AND THE AFTERNOON AND EVENING OF DAY 5...WILL NOT HIGHLIGHT A SPECIFIC THREAT AREA THIS FORECAST. WITH THE FRONT EXPECTED TO HAVE SWEPT OFFSHORE BY THE START OF DAY 6 /FRI. 4-29/...FOCUS SHIFTS WWD AS THE NEXT SYSTEM SHIFTS ACROSS/OUT OF THE ROCKIES. MODELS ARE IN MORE SUBSTANTIAL DISAGREEMENT WITH THE EVOLUTION AND PROGRESSION OF THIS FEATURE...AND THUS WILL NOT HIGHLIGHT ANY LONGER-RANGE THREAT AREAS THIS FORECAST.

..GOSS.. 04/24/2011

NCEP

SPC Tools to Aid Monitoring and Decision Support

Local forecast by "City, St" or "ZIP"
City, St Go

NCEP Quarterly Newsletter

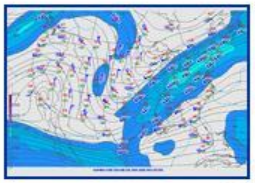
Home
SPC Products
All SPC Forecasts
Current Watches
Meso. Discussions
Conv. Outlooks
Tstm. Outlooks
Fire Wx Outlooks
RSS Feeds
E-Mail Alerts
Weather Information
Storm Reports
NWS Hazards Map
Watch/Warning Map
National RADAR
Product Archive
Norman, OK WX
NOAA Weather Radio
Research
Non-op. Products
Forecast Tools
Svr. Tstm. Events
SPC Publications
SPC-NSSL HWT
Education & Outreach
About the SPC
SPC FAQ
About Tornadoes
About Derechos
WCM Page
Enh. Fujita Page
Cool Images
Our History
Public Affairs
Misc.
Staff
Links
Contact Us
SPC Feedback

USA.gov

Forecast Tools

Upper Air | Soundings | Mesoanalysis | SREF | FireWX Compmaps | Compmaps

Upper Air Maps

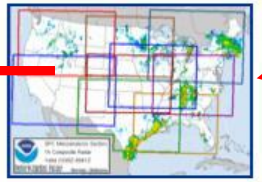


Maps and derived fields based on twice daily (00 and 12 UTC) radiosonde data over the continental U.S.

Observed Sounding Analysis

Skew-T charts for all observed soundings across the United States. Many experimental forecast tools and parameters are shown.

Mesoanalysis Graphics

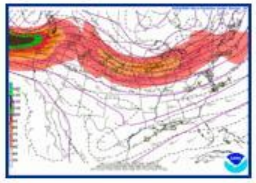


new updates coming

Severe weather analyses updated hourly and usually centered on an SPC risk area.

Short-Range Ensemble Forecast (SREF)

The SPC Short-Range Ensemble Forecast (SREF) is produced by postprocessing the 21 members NCEP SREF plus the operational WRF-NAM for a total of 22 members. Special emphasis is placed on high-impact, mesoscale guidance.



Fire Weather Composite Maps

Forecast and observational maps for various fire weather variables based on the NAM and RUC models.

Compmap

National Weather Service • Since 1870

spc.noaa.gov

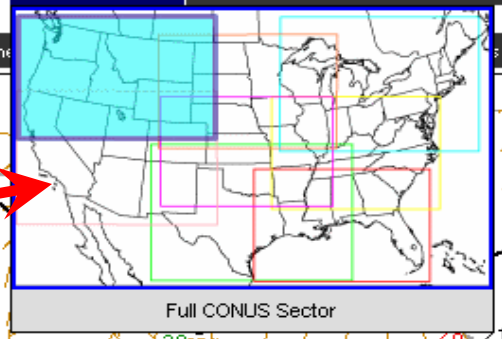
SPC Mesoscale Analysis

Auto-refresh is set to every minute [OFF 1 min 5 min]

Change Sector | Recent Image Archive & Loops | SPC Homepage | Mobile Version

Surface: 02/27/10 01 UTC
RUC: 10022623f001

Observations | Basic Sfc | Basic UA | Kinematics | The | Multi-Parameter Fields | Heavy Rain | Winter Weather | Fire Weather



NOAA/NWS/Storm Prediction Center

Mesoscale Analysis Data

100227/0100 SURFACE WEATHER PLOT

100227/0100 MSL Pressure and surface wind

SPC Mesoscale Analysis

Auto-refresh is set to every minute [OFF 1 min 5 min]

Change Sector | Recent Image Archive & Loops | SPC Homepage | Mobile Version

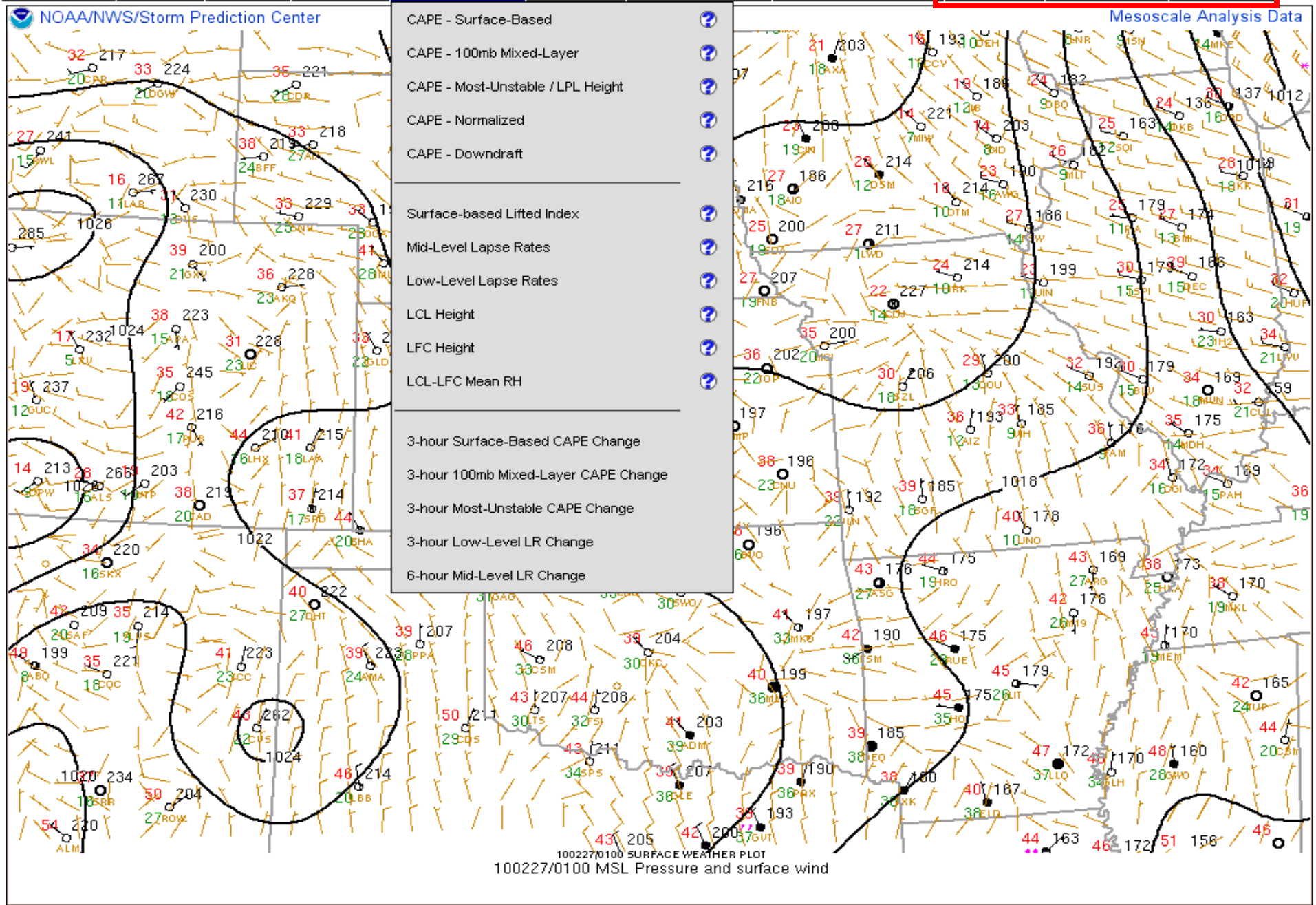
Surface: 02/27/10 01 UTC
RUC: 10022623f001

Observations | Basic Sfc | Basic UA | Kinematics | Thermodynamics | Wind Shear | Composite Indices | Multi-Parameter Fields | Heavy Rain | Winter Weather | Fire Weather

- CAPE - Surface-Based
- CAPE - 100mb Mixed-Layer
- CAPE - Most-Unstable / LPL Height
- CAPE - Normalized
- CAPE - Downdraft

- Surface-based Lifted Index
- Mid-Level Lapse Rates
- Low-Level Lapse Rates
- LCL Height
- LFC Height
- LCL-LFC Mean RH

- 3-hour Surface-Based CAPE Change
- 3-hour 100mb Mixed-Layer CAPE Change
- 3-hour Most-Unstable CAPE Change
- 3-hour Low-Level LR Change
- 6-hour Mid-Level LR Change



100227/0100 MSL Pressure and surface wind

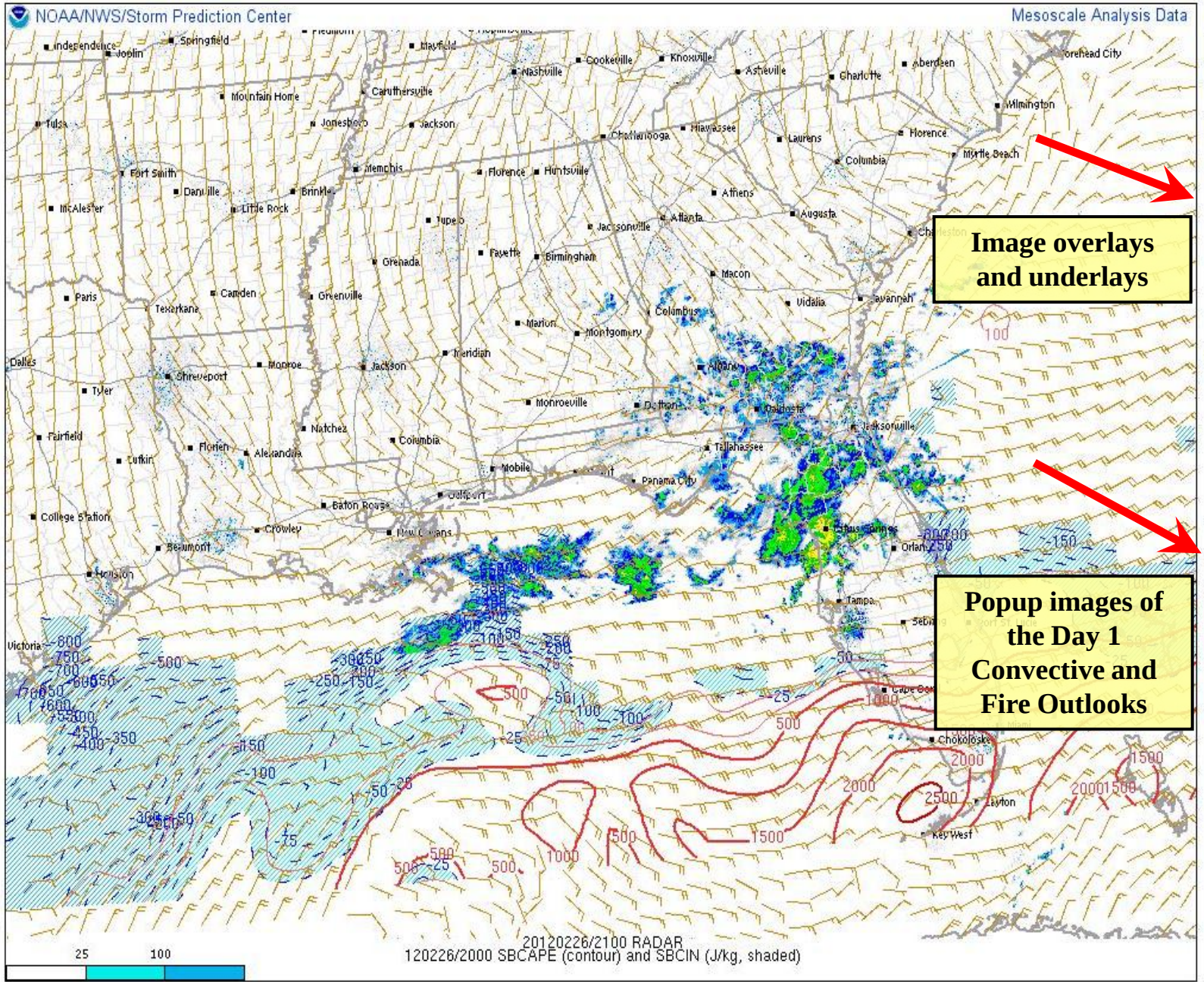
SPC Mesoscale Analysis

Auto-refresh is set to every minute [OFF 1 min 5 min]

Change Sector | Image Archive & Loops | SPC Homepage | Mobile Version

Surface: 02/26/12 21 UTC
RUC: 12022620f001

Observations | Basic Sfc | Basic UA | Kinematics | Thermodynamics | Wind Shear | Composite Indices | Multi-Parameter Fields | Heavy Rain | Winter Weather | Fire Weather



Trends/Forecast

-4 | -2 | -0 | +0 | +2 | +4 | +6

- SfcOA Diag - | - RUC/SfcOA Fcst -

Image overlays:

- [x] County Boundaries
- [ ] County Warning Areas
- [x] Hiways & Cities
- [ ] ARTCC Regions
- [ ] NWS Watches & Warns
- [ ] SPC Day1 Outlook
- [ ] Severe Reports

Image underlays:

- ( ) None
- (•) Radar
- ( ) Terrain
- ( ) Population
- ( ) Surface Obs

Current SPC Products

Show popup images? [x]

Day1 Convective Outlook
Issued at 1930 UTC
Probabilities: Torn Hail Wind

Day1 National Fire Outlook
Issued at 1624 UTC

This list updates automatically.

Image overlays and underlays

Popup images of the Day 1 Convective and Fire Outlooks

SPC Mesoscale Analysis

Auto-refresh is set to every minute [OFF 1 min 5 min]

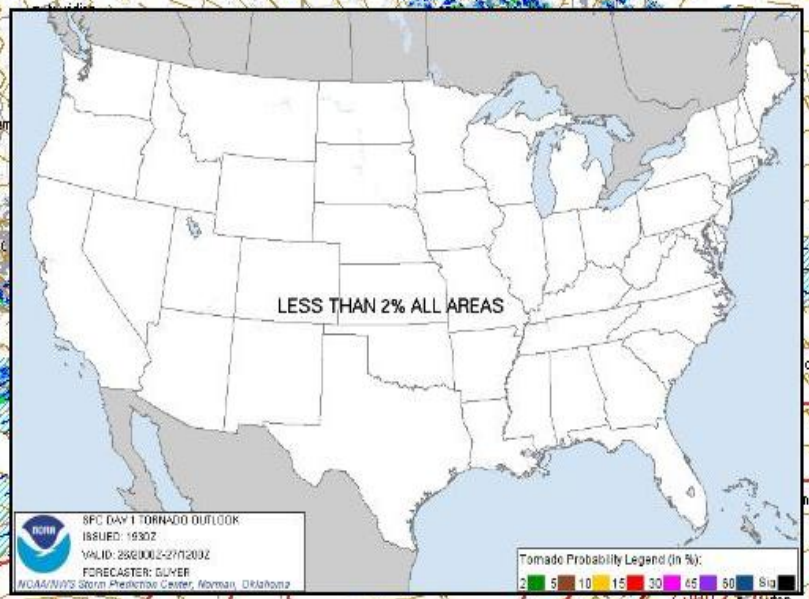
Change Sector | Image Archive & Loops | SPC Homepage | Mobile Version

Surface: 02/26/12 21 UTC
RUC: 12022620f001

Observations | Basic Sfc | Basic UA | Kinematics | Thermodynamics | Wind Shear | Composite Indices | Multi-Parameter Fields | Heavy Rain | Winter Weather | Fire Weather

NOAA/NWS/Storm Prediction Center

Mesoscale Analysis Data



20120226/2100 RADAR
120226/2000 SBCAPE (contour) and SBCIN (J/kg, shaded)

25 100

Trends/Forecast

-4 | -2 | -0 | +0 | +2 | +4 | +6

- SfcOA Diag - | - RUC/SfcOA Fcst -

Image overlays:

- [x] County Boundaries
- [ ] County Warning Areas
- [x] Hiways & Cities
- [ ] ARTCC Regions
- [ ] NWS Watches & Warns
- [ ] SPC Day1 Outlook
- [ ] Severe Reports

Image underlays:

- ( ) None
- (•) Radar
- ( ) Terrain
- ( ) Population
- ( ) Surface Obs

Current SPC Products

Show popup images? [x]

Day1 Convective Outlook
Issued at 1930 UTC
Probabilities: Torn Hail Wind

Day1 National Fire Outlook
Issued at 1624 UTC

This list updates automatically.

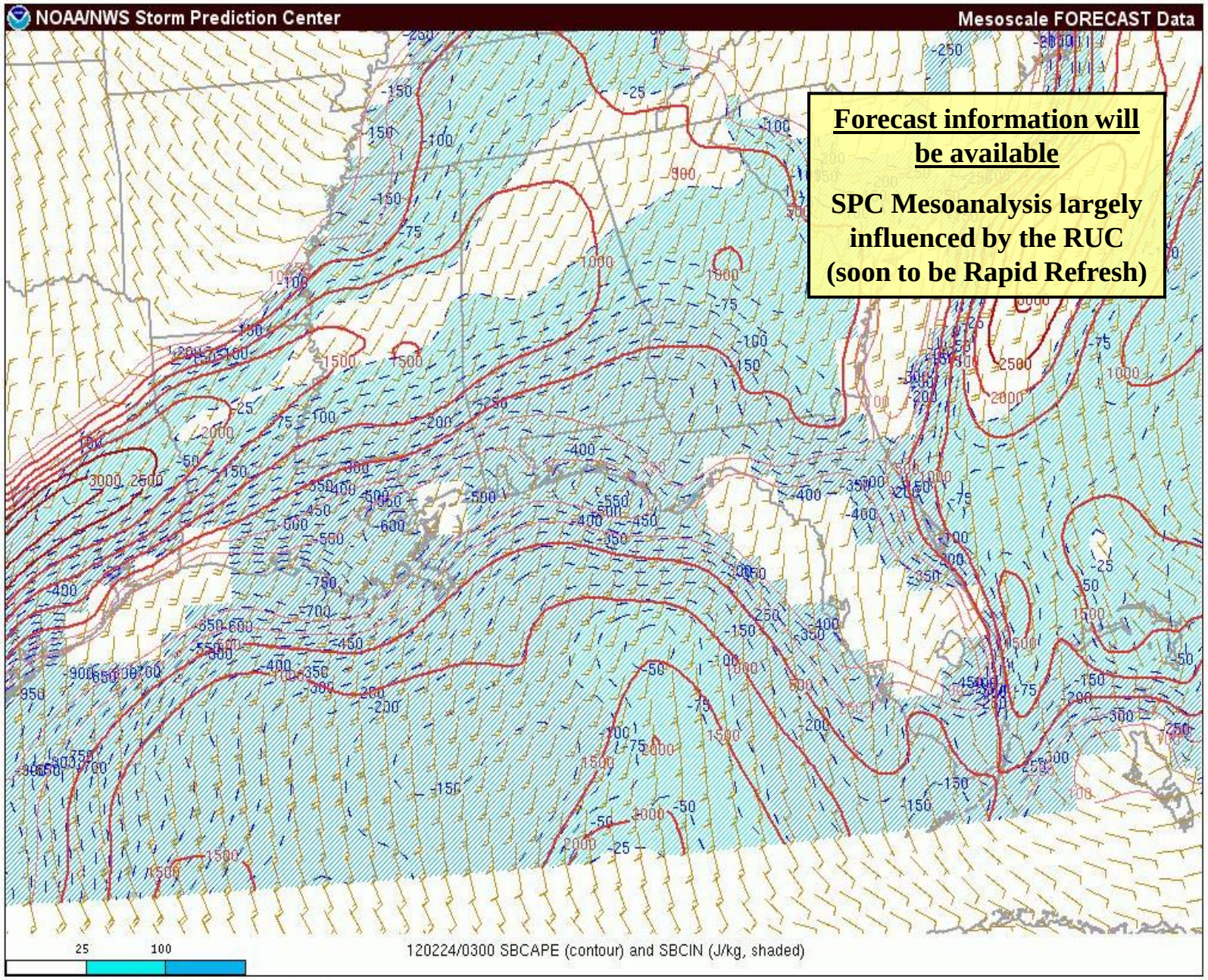
SPC Mesoscale Analysis

Auto-refresh is set to every minute [OFF 1 min 5 min]

Change Sector | Image Archive & Loops | SPC Homepage | Mobile Version

Surface: 02/26/12 21 UTC
RUC: 12022620f001

Observations | Basic Sfc | Basic UA | Kinematics | Thermodynamics | Wind Shear | Composite Indices | Multi-Parameter Fields | Heavy Rain | Winter Weather | Fire Weather



Trends/Forecast

-4 | -2 | -0 | +0 | +2 | +4 | +6

- SfcOA Diag - | - RUC/SfcOA Fcst -

These forecast images are simply the **RUC** (Rapid Update Cycle) forecast for 3-hours from now. We process the data using the same routines used by the SFCOA system, resulting in a consistent set of images.

Currently, forecast images are only available for a selected subset of mesoanalysis data. The images are updated around HH:20 each hour.

- (•) Radar
- ( ) Terrain
- ( ) Population
- ( ) Surface Obs

Current SPC Products

Show popup images? ☑

Day1 Convective Outlook
Issued at 1930 UTC
Probabilities: Torn Hail Wind

Day1 National Fire Outlook
Issued at 1624 UTC

This list updates automatically.

Ensemble Guidance at the SPC

- **Develop specialized model guidance based on NCEP SREF**
  - Severe, winter, fire, and heavy rainfall
- **Design guidance that**
  - Incorporates larger-scale environmental information to yield downscaled probabilistic guidance
  - Aids in decision support of high impact weather
    - Gauge confidence
    - Alert for potentially significant events
  - **Plume diagrams**
    - Useful for point-specific decision support

Storm Prediction Center
Norman, Oklahoma

Local forecast by "City, St" or "ZIP"
City, St Go

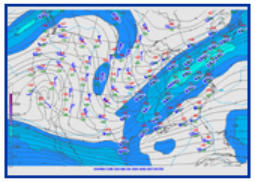
Overview
SPC Products
All SPC Forecasts
Current Watches
Meso. Discussions
Conv. Outlooks
Fire Wx Forecasts
RSS Feeds
Weather Information
Storm Reports
Watch/Warning Map
National RADAR
Product Archive
Norman, OK WX
Research
Non-op. Products
Forecast Tools
Svr. Tstm. Events
SPC Publications
Education & Outreach
About the SPC
SPC FAQ
About Tornadoes
About Derechos
WCM Page
Enh. Fujita Page
Cool Images
Our History
Public Affairs
Misc.
Staff
Links
Contact Us
SPC Feedback

USA.gov

Forecast Tools

Upper Air | Soundings | Mesoanalysis | SREF | FireWX Compmaps | Compmaps

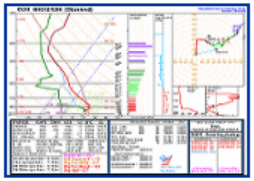
Upper Air Maps



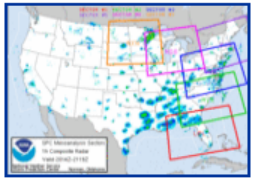
Maps and derived fields based on twice daily (00 and 12 UTC) radiosonde data over the continental U.S.

Observed Sounding Analysis

Skew-T charts for all observed soundings across the United States. Many experimental forecast tools and parameters are shown.



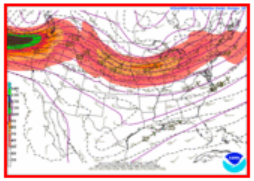
Mesoanalysis Graphics



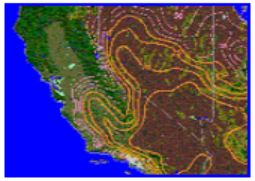
Severe weather analyses updated hourly and usually centered on an SPC risk area.

Short-Range Ensemble Forecast (SREF)

The SPC Short-Range Ensemble Forecast (SREF) is produced by postprocessing the 21 members NCEP SREF plus the operational WRF-NAM for a total of 22 members. Special emphasis is placed on high-impact, mesoscale guidance.



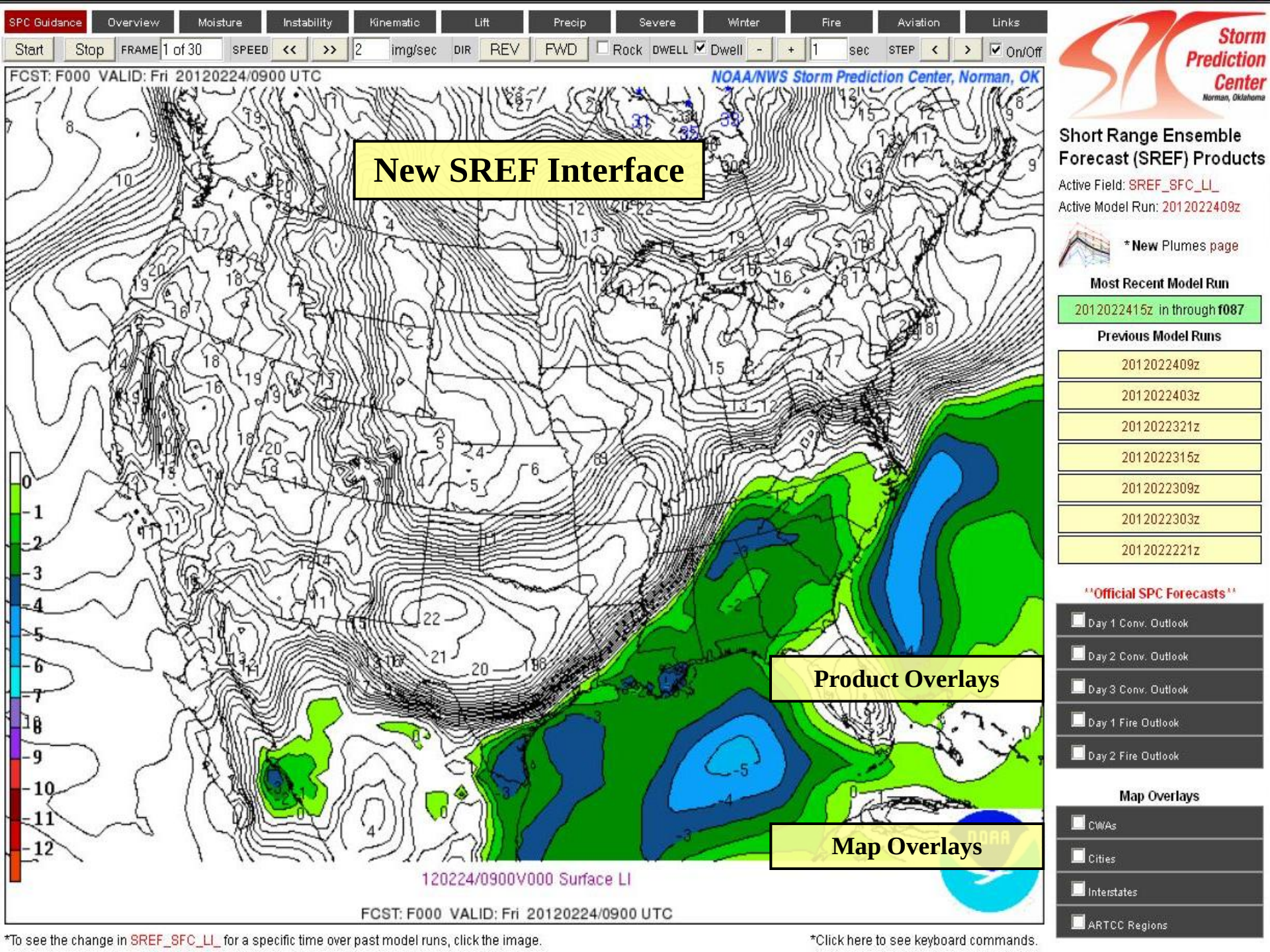
Fire Weather Composite Maps



Forecast and observational maps for various fire weather variables based on the Eta and RUC models.

Compmap

National Weather Service • Since 1870


SPC Guidance
Overview
Moisture
Instability
Kinematic
Lift
Precip
Severe
Winter
Fire
Aviation
Links
Start
Stop
FRAME 1 of 30
SPEED
img/sec
DIR
REV
FWD
Rock
DWELL
Dwell
sec
STEP
On/Off
FCST: F000 VALID: Fri 20120224/0900 UTC
NOAA/NWS Storm Prediction Center, Norman, OK
New SREF Interface
Product Overlays
Map Overlays
120224/0900V000 Surface LI
FCST: F000 VALID: Fri 20120224/0900 UTC
Storm Prediction Center
Norman, Oklahoma
Short Range Ensemble Forecast (SREF) Products
Active Field: SREF_SFC_LI_
Active Model Run: 2012022409z
*New Plumes page
Most Recent Model Run
2012022415z in through f087
Previous Model Runs
2012022409z
2012022403z
2012022321z
2012022315z
2012022309z
2012022303z
2012022221z
"Official SPC Forecasts"
Day 1 Conv. Outlook
Day 2 Conv. Outlook
Day 3 Conv. Outlook
Day 1 Fire Outlook
Day 2 Fire Outlook
Map Overlays
CWAs
Cities
Interstates
ARTCC Regions
*To see the change in SREF_SFC_LI_ for a specific time over past model runs, click the image.
*Click here to see keyboard commands.

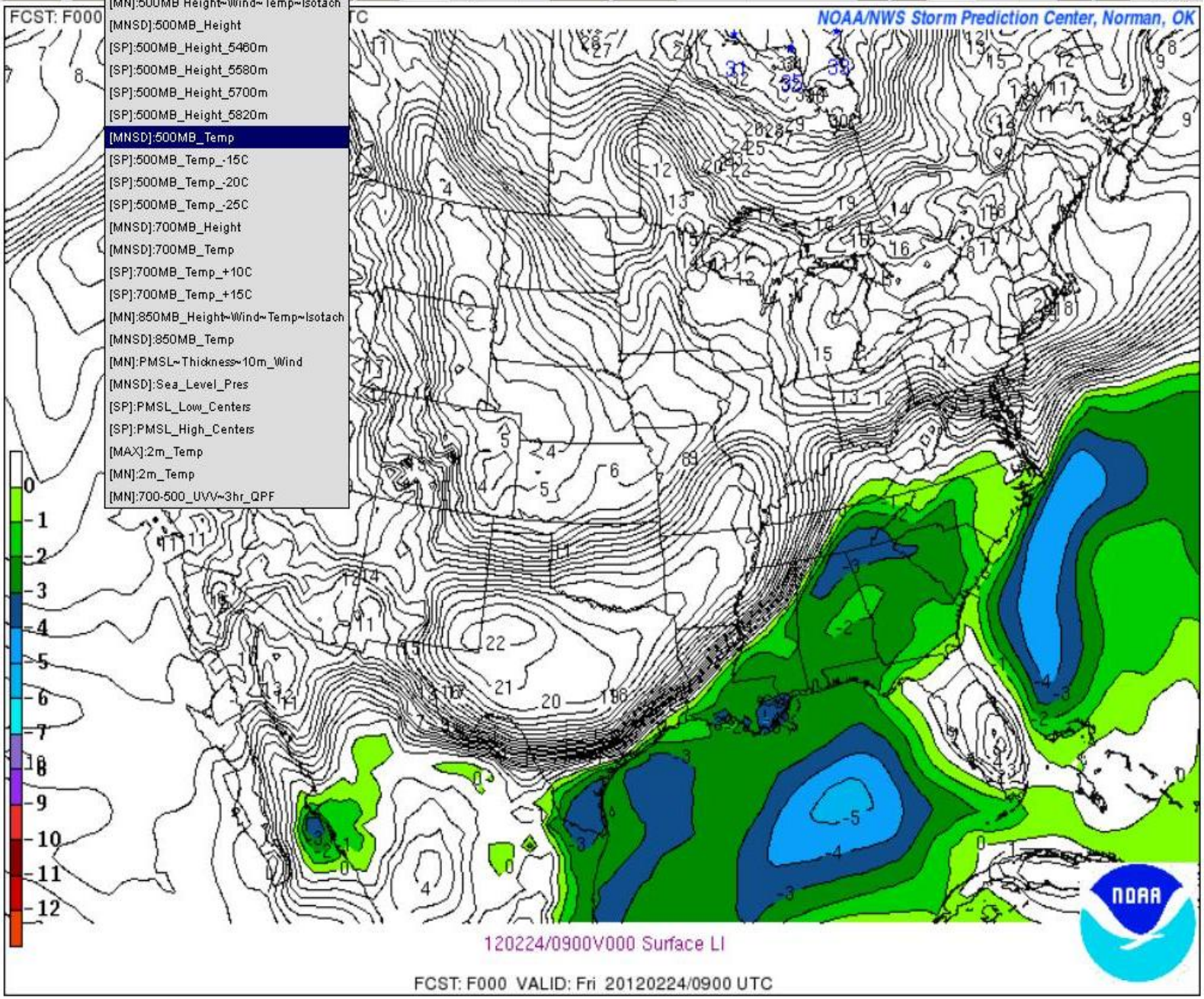
SPC Guidance | Overview | Moisture | Instability | Kinematic | Lift | Precip | Severe | Winter | Fire | Aviation | Links

Start | Stop | >> | 2 img/sec | DIR | REV | FWD | Rock | DWELL | Dwell | - | + | 1 sec | STEP | < | > | On/Off

- [MN]:500MB Height~Absolute_Vorticity
- [MN]:500MB Height~Wind~Temp~Isotach
- [MNSD]:500MB_Height
- [SP]:500MB_Height_5460m
- [SP]:500MB_Height_5580m
- [SP]:500MB_Height_5700m
- [SP]:500MB_Height_5820m
- [MNSD]:500MB_Temp
- [SP]:500MB_Temp_-15C
- [SP]:500MB_Temp_-20C
- [SP]:500MB_Temp_-25C
- [MNSD]:700MB_Height
- [MNSD]:700MB_Temp
- [SP]:700MB_Temp_+10C
- [SP]:700MB_Temp_+15C
- [MN]:850MB_Height~Wind~Temp~Isotach
- [MNSD]:850MB_Temp
- [MN]:PMSL~Thickness~10m_Wind
- [MNSD]:Sea_Level_Pres
- [SP]:PMSL_Low_Centers
- [SP]:PMSL_High_Centers
- [MAX]:2m_Temp
- [MN]:2m_Temp
- [MN]:700-500_UVV~3hr_QPF

FCST: F000

NOAA/NWS Storm Prediction Center, Norman, OK



*To see the change in SREF_SFC_LI_ for a specific time over past model runs, click the image.

*Click here to see keyboard commands.

Storm Prediction Center
Norman, Oklahoma

Short Range Ensemble Forecast (SREF) Products

Active Field: SREF_SFC_LI_

Active Model Run: 2012022409z

*New Plumes page

Most Recent Model Run

2012022415z in through f087

Previous Model Runs

- 2012022409z
- 2012022403z
- 2012022321z
- 2012022315z
- 2012022309z
- 2012022303z
- 2012022221z

"Official SPC Forecasts"

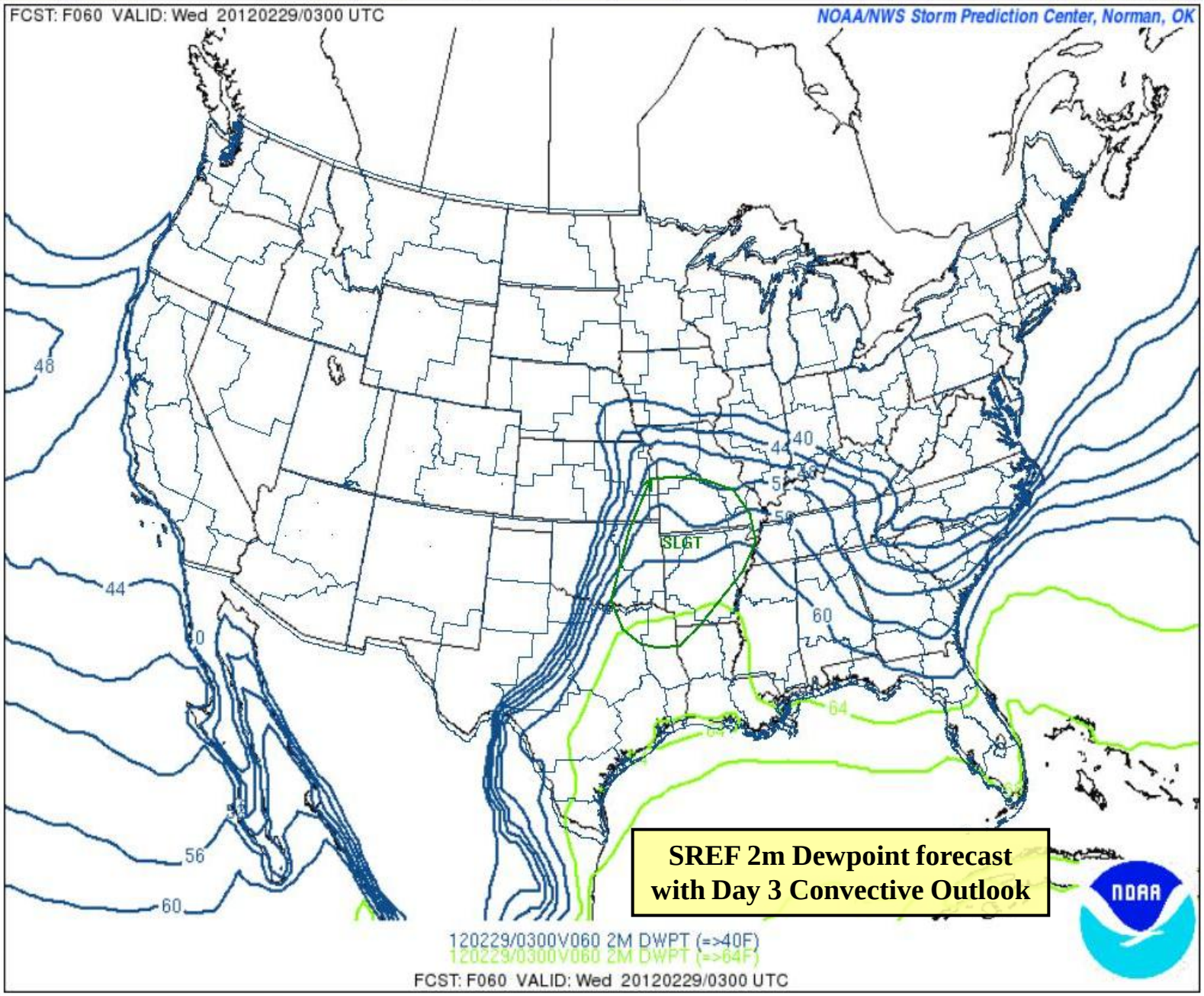
- Day 1 Conv. Outlook
- Day 2 Conv. Outlook
- Day 3 Conv. Outlook
- Day 1 Fire Outlook
- Day 2 Fire Outlook

Map Overlays

- CWAs
- Cities
- Interstates
- ARTCC Regions

SPC Guidance | Overview | Moisture | Instability | Kinematic | Lift | Precip | Severe | Winter | Fire | Aviation | Links

Start | Stop | FRAME 16 of 20 | SPEED << >> 2 img/sec | DIR REV FWD | Rock | DWELL Dwell - + 1 sec | STEP < > | On/Off



SREF 2m Dewpoint forecast with Day 3 Convective Outlook

*To see the change in SREF_2M_DWPT_F_ for a specific time over past model runs, click the image.

*Click here to see keyboard commands.

Storm Prediction Center
Norman, Oklahoma

Short Range Ensemble Forecast (SREF) Products

Active Field: SREF_2M_DWPT_F_

Active Model Run: 2012022615z

*New Plumes page

Most Recent Model Run

2012022615z in through f072

Previous Model Runs

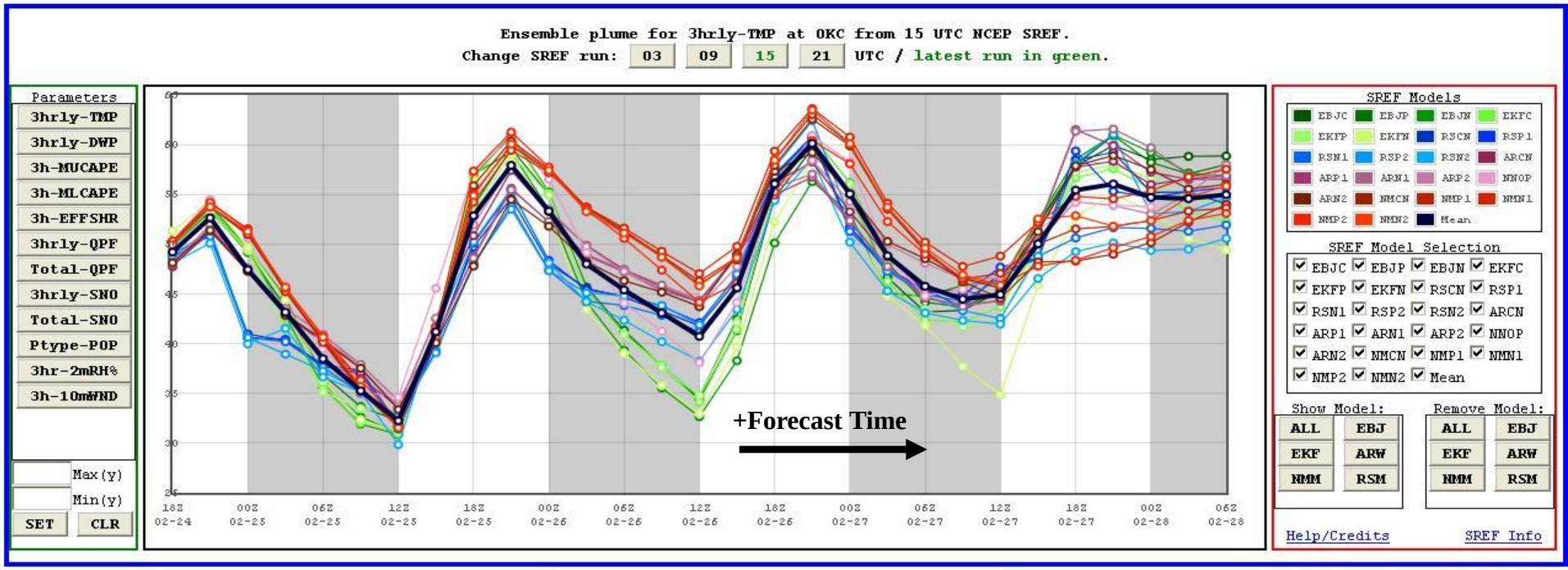
- 2012022521z
- 2012022515z
- 2012022509z
- 2012022503z
- 2012022421z
- 2012022415z
- 2012022409z

"Official SPC Forecasts"

- [ ] Day 1 Conv. Outlook
- [ ] Day 2 Conv. Outlook
- [x] Day 3 Conv. Outlook
- [ ] Day 1 Fire Outlook
- [ ] Day 2 Fire Outlook

Map Overlays

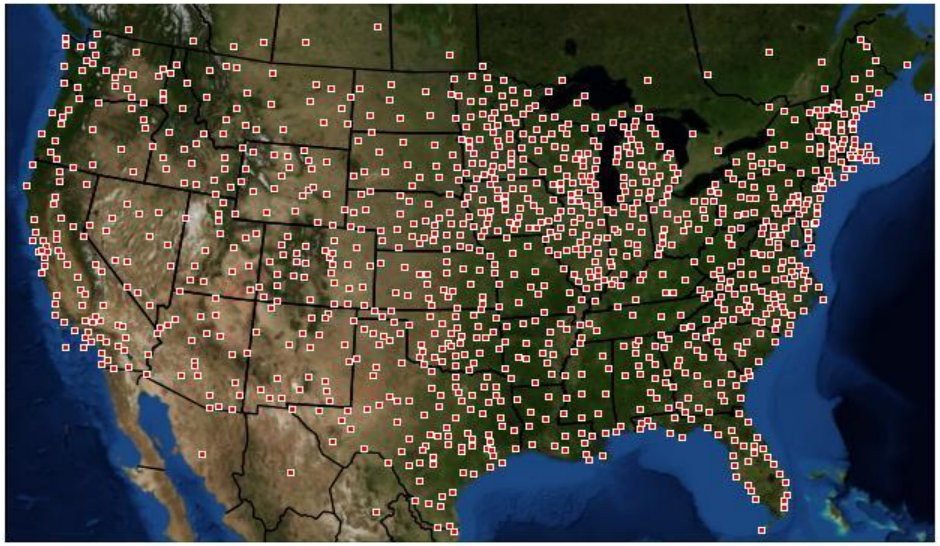
- [x] CWAs
- [ ] Cities
- [ ] Interstates
- [ ] ARTCC Regions



ANB = ANNISTON/CALHOUN_CO_(ASOS), AL

SREF point-specific Plumes for selected fields

QPF, CAPE, Snow, RH, Temp, Dewpoint etc.



Ability to view and toggle on/off individual SREF members

Back to SPC SREF Page
Back to SPC Front Page
Please support this resource by providing your feedback. Thank you.

N
C
E
P

Supplemental Communication Formats

WHERE AMERICA'S CLIMATE AND WEATHER SERVICES BEGIN

NOAA NWS Storm Prediction Center

Like

Create a Page

Government Organization · Norman, Oklahoma

Wall

Share: Post

Write something...

NOAA NWS Storm Prediction Center

We are forecasting the development of severe thunderstorms with the possibility of widespread damaging winds as well as tornadoes from parts of the southeast U.S. to the Mid-Atlantic region today into this evening. The greatest risk for severe storms will be across eastern sections of the Carolinas into southern and eastern Virginia -- as noted by the red-shaded "Moderate Risk" area in the graphic. As of mid-morning, two Tornado Watches have already been issued for portions of the region. http://www.spc.noaa.gov/

Like · Comment · 8 hours ago ·

Michael Erdman, Michael Anthony Rackoff, Danielle Widdel and 26 others like this.

View all 16 comments 71 shares

Allison Hatcher stay safe
3 hours ago

Stephen Ward Warm, windy and overcast in Calabash, NC. Severe TS warning until 7 p.m. No golf today.
3 hours ago

NOAA NWS Storm Prediction Center

For those that live in the Ohio/Tennessee Valley regions, there is a severe threat this afternoon and evening that includes the potential for damaging winds and tornadoes (especially across the Ohio Valley). The severe risk may continue into Friday across the Southeast U.S. Additionally, a critical fire weather threat also exists today across a large part of southwest Texas and southeast New Mexico.

Want to like or comment on this page?

To interact with NOAA NWS Storm Prediction Center you need to sign up for Facebook first.

Sign Up

It's free and anyone can join. Already a member? Log in.

SPC
STORM PREDICTION CENTER

- Wall
- Info
- Photos
- Questions
- Links

About

This page is an experimental service provided by NWS to explore the use of...

More

18,187
like this

452
talking about this

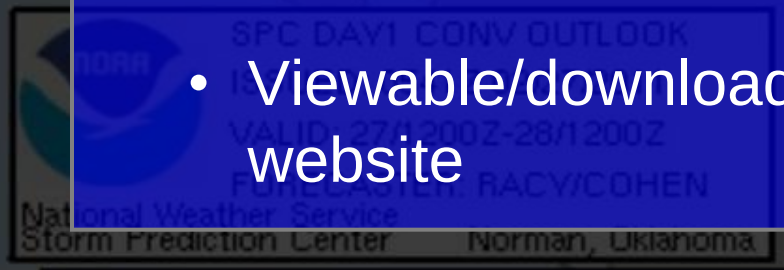
Likes See All

US National Wea...
US National Wea...
US National Wea...
US National Wea...
US National Wea...

Create a Page

SPC Multimedia Web Briefings

- Implemented **for Moderate/High Risk** Severe Weather Days
  - Supplement to the Public Severe Weather Outlook (PWO)
  - Recorded once or twice per day and available during the early/mid morning hours
    - Based on 06z and/or 13z Convective Outlooks
  - Viewable/downloadable movie file (MP4) from the SPC website



File Edit View Window Help

NOAA/NWS Storm Prediction Center www.spc.noaa.gov

NOAA Storm Prediction Center Web Briefing

Sunday February 27, 2011
Recorded at 10:16 AM CST

00:00:04

NCEP

Post-Event Analysis and Climatology

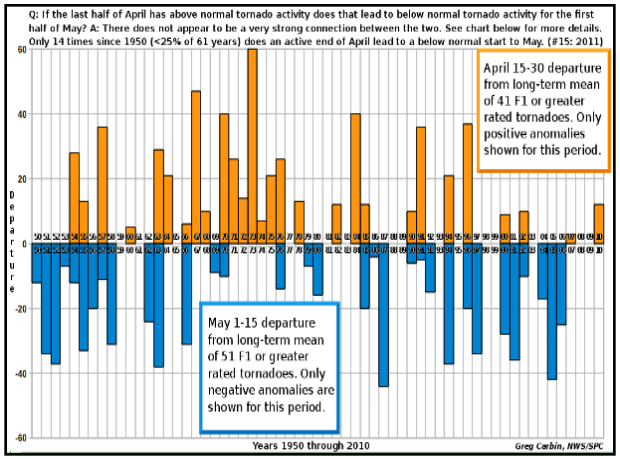
WHERE AMERICA'S CLIMATE AND WEATHER SERVICES BEGIN

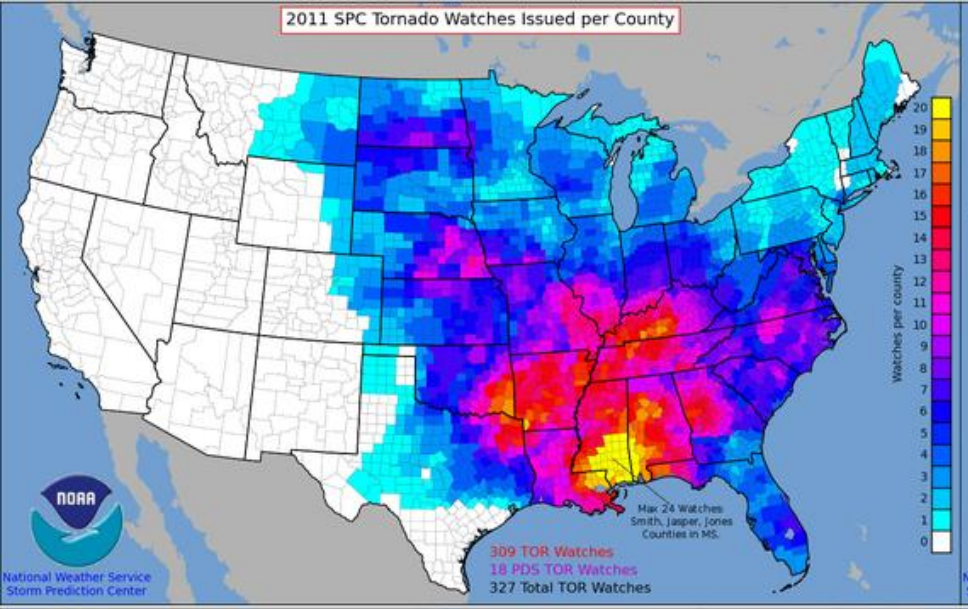
Post-Event and Analysis

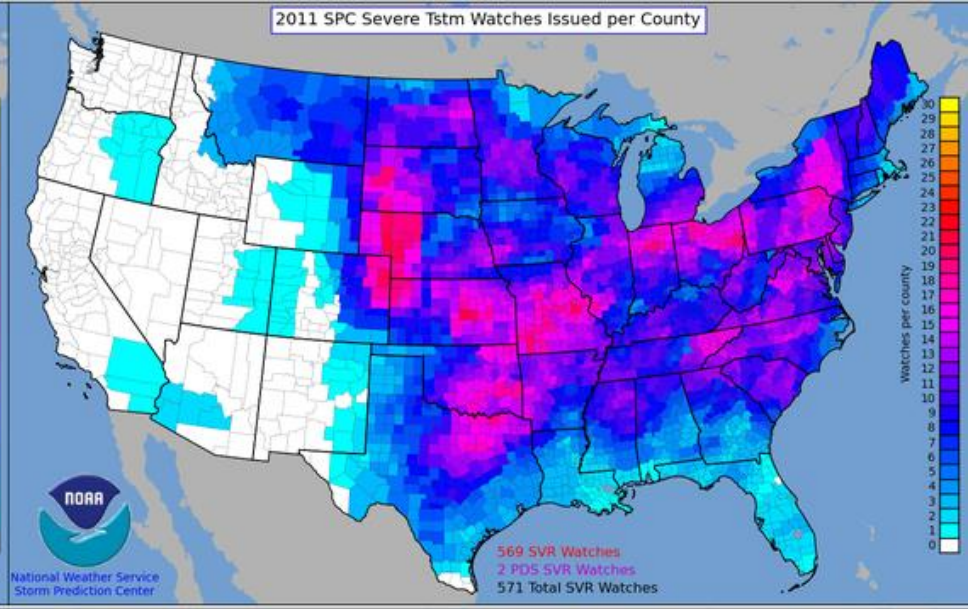
- SPC can provide analysis and national/historical perspective on major events
  - Especially based on 2011, we have learned that there is a high demand for additional insight and historical context

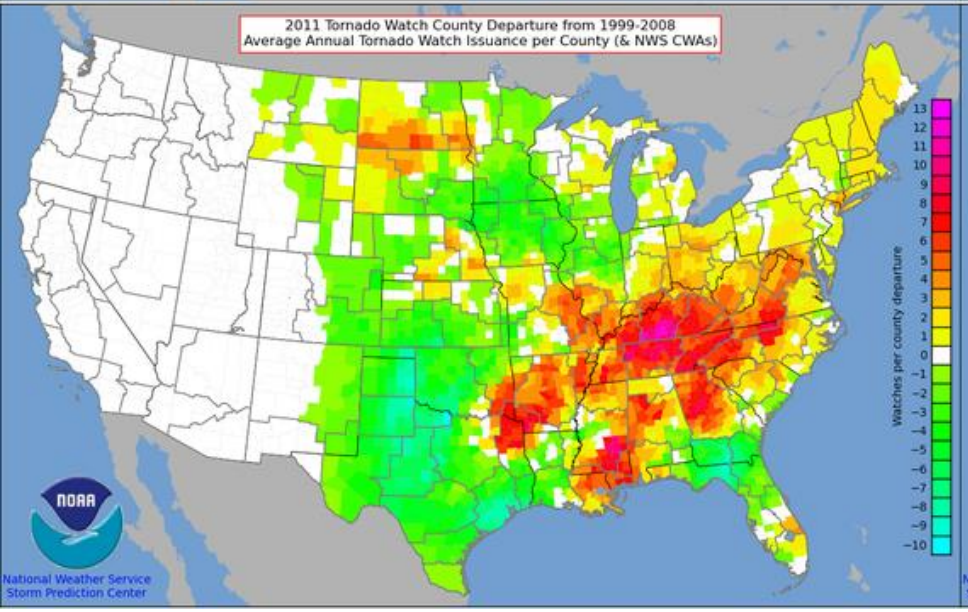
- Historical Tornado data and analysis:

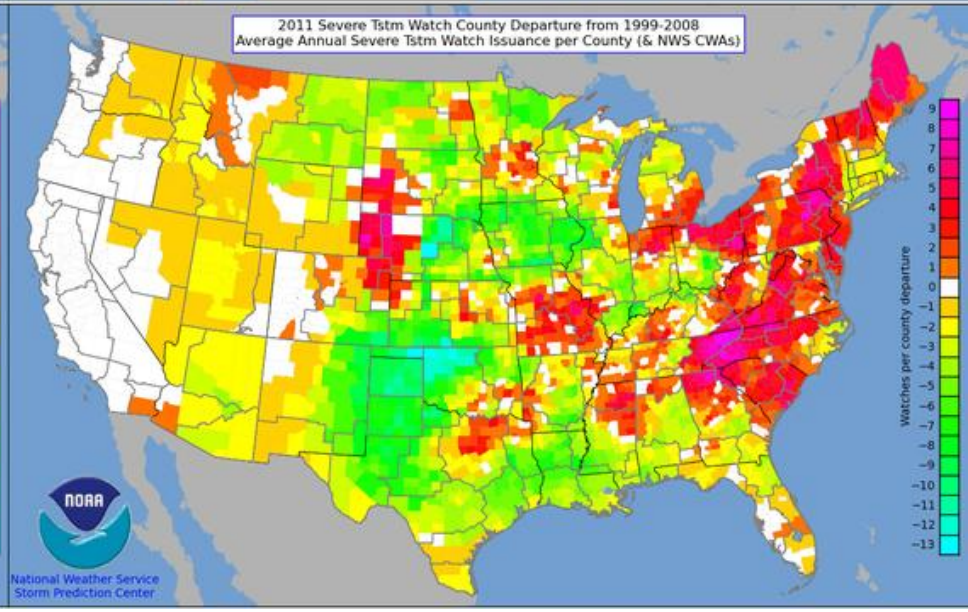
  spc.noaa.gov/wcm/











2011 Watch Climatology

Local forecast by "City, St" or "ZIP"
City, St Go

Find us on Facebook
SPC on Facebook

NCEP Quarterly Newsletter

Home
SPC Products
All SPC Forecasts
Current Watches
Meso. Discussions
Conv. Outlooks
Tstm. Outlooks
Fire Wx Outlooks
RSS Feeds
E-Mail Alerts
Weather Information
Storm Reports
NWS Hazards Map
Watch/Warning Map
National RADAR
Product Archive
Norman, OK WX
NOAA Weather Radio
Research
Non-op. Products
Forecast Tools
Svr. Tstm. Events
SPC Publications
SPC-NSSL HWT
Education & Outreach
About the SPC
SPC FAQ
About Tornadoes
About Derechos
WCM Page
Enh. Fujita Page
Cool Images
Our History
Public Affairs
Misc.
Staff
Links
Contact Us
SPC Feedback

USA.gov

SPC Severe Weather Events Archive

Welcome to the Storm Prediction Center's Severe Weather Event Archive search engine and listing. The first event in this archive occurred on January 3, 2000. We continue to archive significant severe weather events through the present day based on a variety of conditions and thresholds. You can access those archived events by using the simple search engine below. When this page is first loaded, the listing shows the most recently archived events. You can list all the days in the archive by simply clicking on the "Retrieve Events" button below. When you click on a particular date in the archive listing you will be brought to the *Severe Weather Event Review Page* for that date. A left-hand menu with links to products, loops, and other data related to that particular severe weather event is available to browse a particular event, or you can move forward and backward across events by using the dated links at the top of the left hand menu of the *Severe Weather Event Review Page*. To return to this search page, use the **"Search All Events"** link at the bottom of the left-hand menu of any of the *Severe Weather Event Review Page*.

Many people have played important roles over the years in making this archive possible. You can see them credited on the acknowledgements page here.

The purpose of this resource is discussed in this *Introduction to the Archive*, available here. (Please note: we are in the process of determining new criteria for event case selection so the information on the introduction page may be a bit dated but will be updated to reflect the changes in case selection over the next few months.)

A resource like this requires continued support from users and those who benefit from the historic content that is maintained here. We certainly appreciate your feedback and suggestions but please understand that these pages and the data that they contain are **not** to be considered operationally supported on a 24-hour/7-days a week basis. Please provide us with your feedback via this link. Thank you.

Show archived events that meet the following criteria:

(To select multiple items in a menu, hold the Ctrl key)

YEAR(S)	MONTH(S)	DAY(S)	STATE(S)
ALL 2012 2011 2010 2009 2008	ALL Jan Feb Mar Apr May	ALL 01 02 03 04 05	ALL AK AL AR AZ CA

○ Selected states in each event.
◉ Or, selected states in any event.

Retrieve Events | Reset search

Event Date	Day 1 Risk-Reports	States Affected
February 22, 2012	SLGT-T0-W0-H0	SLGT-T0-W0-H0
February 20, 2012	SLGT-T0-W22-H5	OK, KS, MO
February 18, 2012	SLGT-T3-W57-H8	LA, AL, MS, FL, GA
February 01, 2012	SLGT-T1-W35-H23	OK, TX, AR, LA, MS
January 25, 2012	SLGT-T8-W54-H2	TX, LA, MS
January 23, 2012	SLGT-T5-W12-H0	AL, KY, OH
January 22, 2012	MDT-T37-W160-H37	AR, MO, IL, IN, KY, TN, MS, AL
January 21, 2012	SLGT-T3-W24-H26	AL, GA, SC, TN

National Weather Service • Since 1870

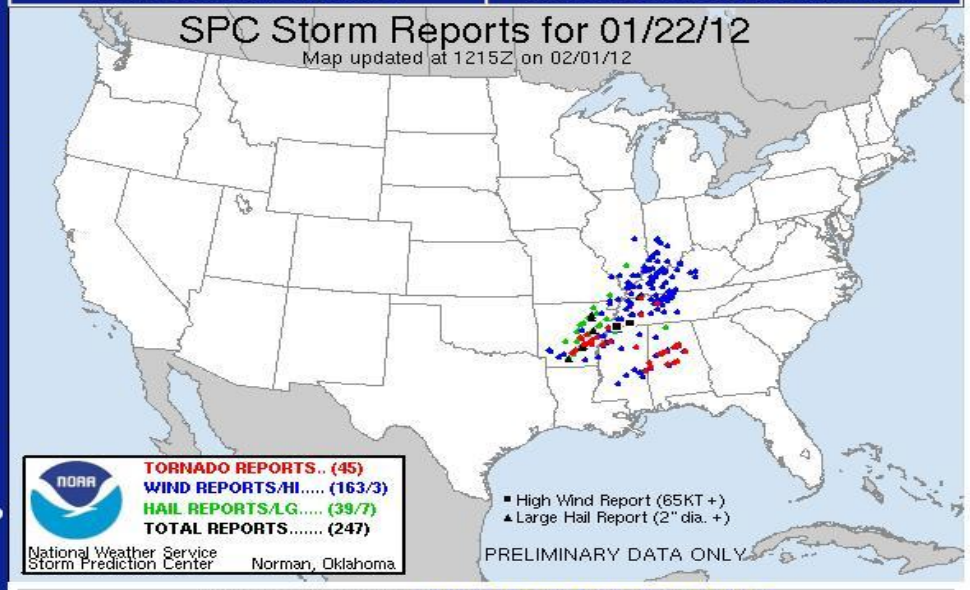
Severe Weather Events Archive

20120122's Storm Reports (1200 UTC - 1159 UTC) (Print Version)

< 120121 Reports 120123 Reports >

Note: All Reports Are Considered Preliminary

Unfiltered Reports (Google Maps) | Filtered Reports (Google Maps) (More Info)



Tornado Reports (CSV) (Raw Tornado CSV)(?)

Time		Location	County	State	Lat	Lon	Comments
0114		3 WSW THORNTON	CALHOUN	AR	3377	9253	THE EF2 TORNADO TOUCHED DOWN 3 WSW OF THORNTON AND CONTINUED 19.2 MILES TO 4.9 SW OF RISON ... AFFECTING CALHOUN ... DALLAS AND CLEVELAND COUNTIES. IN CALHOUN COUNTY ... DAMA (LZK)
0126		4 NE FORDYCE	CLEVELAND	AR	3386	9236	TORNADO REPORTED ON THE GROUND BY LAW ENFORCEMENT4 MILES NORTHEAST OF FORDYCE. (LZK)
0126		4 NW FORDYCE	DALLAS	AR	3386	9246	2 HOUSES DAMAGAED ON HIGHWAY 8 NORTHWEST OF FORDYCE. NO INJURIES REPORTED AT THIS TIME. (LZK)
0128		2 SW COY	LONOKE	AR	3452	9189	THIS TORNADO STARTED 2.5 MILES SW OF COY AND ENDED 1.7 MILES SW OF COY FOR A TOTAL PATH

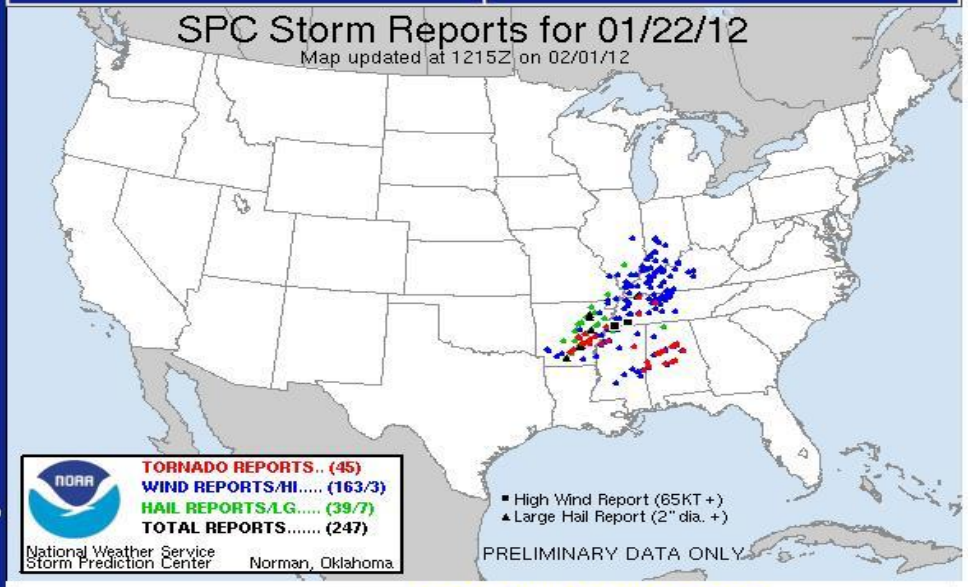
National Weather Service • Since 1870

20120122's Storm Reports (1200 UTC - 1159 UTC) (Print Version)

< 120121 Reports 120123 Reports >

Note: All Reports Are Considered Preliminary

Unfiltered Reports (Google Maps) | Filtered Reports (Google Maps) (More Info)



Tornado Reports (CSV) (Raw Tornado CSV)(?)

Time		Location	County	State	Lat	Lon	Comments
0114		3 WSW THORNTON	CALHOUN	AR	3377	9253	THE EF2 TORNADO TOUCHED DOWN 3 WSW OF THORNTON AND CONTINUED 19.2 MILES TO 4.9 SW OF RISON ... AFFECTING CALHOUN ... DALLAS AND CLEVELAND COUNTIES. IN CALHOUN COUNTY ... DAMA (LZK)
0126		4 NE FORDYCE	CLEVELAND	AR	3386	9236	TORNADO REPORTED ON THE GROUND BY LAW ENFORCEMENT4 MILES NORTHEAST OF FORDYCE. (LZK)
0126		4 NW FORDYCE	DALLAS	AR	3386	9246	2 HOUSES DAMAGAED ON HIGHWAY 8 NORTHWEST OF FORDYCE. NO INJURIES REPORTED AT THIS TIME. (LZK)
0128		2 SW COY	LONOKE	AR	3452	9189	THIS TORNADO STARTED 2.5 MILES SW OF COY AND ENDED 1.7 MILES SW OF COY FOR A TOTAL PATH

National Weather Service • Since 1870

Severe Weather Event: Jan 22, 2012

< Jan 21, 2012 | Jan 23, 2012 >

SVR Reports

Preliminary Reports

Obs and Mesoanalysis

Obs and Mesoanalysis

Upper-Air Analyses

925 mb: 12z 00z
850 mb: 12z 00z
700 mb: 12z 00z
500 mb: 12z 00z
300 mb: 12z 00z
250 mb: 12z 00z

Skew-T/Log-P Charts

2012012212_SNDG
2012012221_SNDG
2012012300_SNDG

Outlooks

Day 8
Day 7
Day 6
Day 5
Day 4
Day 3 (2Pnl)
Day 2 (1730z) (2Pnl)
Day 1 (0600z) (4Pnl) (verf)
Day 1 (1300z) (4Pnl) (verf)
Day 1 (1630z) (4Pnl) (verf)
Day 1 (2000z) (4Pnl) (verf)
Day 1 (0100z) (4Pnl) (verf)

Meso Discussions

MCD #0045
MCD #0046
MCD #0047
MCD #0048
MCD #0049
MCD #0050
MCD #0051
MCD #0052
MCD #0053
MCD #0054
MCD #0055
MCD #0056
MCD #0057
MCD #0058

Watches

Watch #0005
Watch #0006
Watch #0007

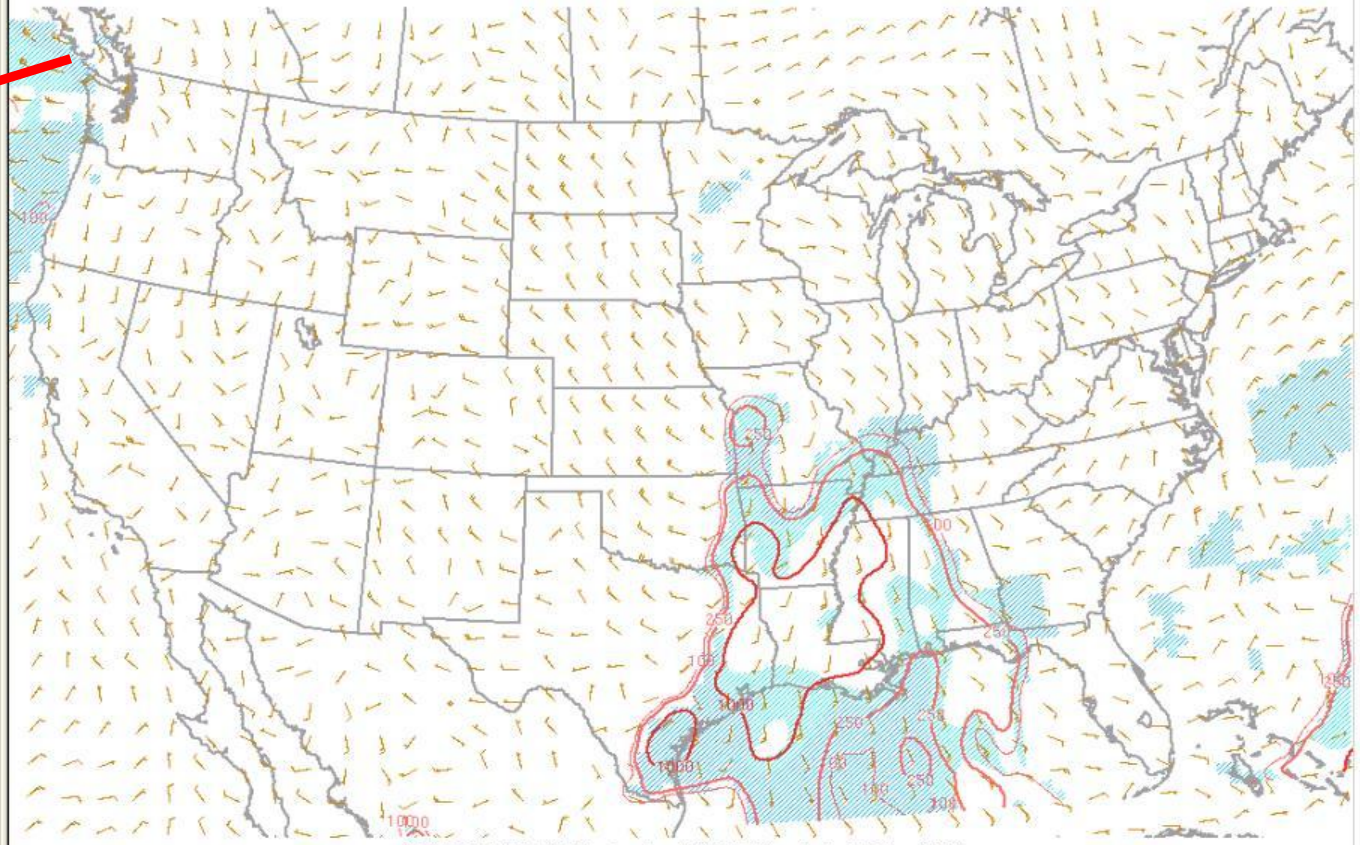
Observations | Basic Overview | Thermodynamics | Wind Shear | Composite Indices

Click here to see keyboard commands.

Start | Stop | FRAME 15 of 2 | SPEED << >> 32 img/sec | DIRECTION REV FWD Rock | DWELL Dwell - + 1.1 sec | STEP < > On/Off

NOAA/NWS/Storm Prediction Center

Mesoscale Analysis Data



120123/0200 MLCAPE (contour) and MLCIN (J/kg, shaded at 25 and 100)

25 100

Double-click on this frame to see the individual image.

Severe Weather Event: Jan 22, 2012

< Jan 21, 2012 Jan 23, 2012 >

SVR Reports

Preliminary Reports

Obs and Mesoanalysis

Obs and Mesoanalysis

Upper-Air Analyses

925 mb: 12z 00z
850 mb: 12z 00z
700 mb: 12z 00z
500 mb: 12z 00z
300 mb: 12z 00z
250 mb: 12z 00z

Skew-T/Log-P Charts

2012012212_SNDG
2012012221_SNDG
2012012300_SNDG

Outlooks

Day 8
Day 7
Day 6
Day 5
Day 4
Day 3 (2Pnl)
Day 2 (1730z) (2Pnl)
Day 1 (0600z) (4Pnl) (verf)
Day 1 (1300z) (4Pnl) (verf)
Day 1 (1630z) (4Pnl) (verf)
Day 1 (2000z) (4Pnl) (verf)
Day 1 (0100z) (4Pnl) (verf)

Meso Discussions

MCD #0045
MCD #0046
MCD #0047
MCD #0048
MCD #0049
MCD #0050
MCD #0051
MCD #0052
MCD #0053
MCD #0054
MCD #0055
MCD #0056
MCD #0057
MCD #0058

Watches

Watch #0005
Watch #0006

Observations | Basic Overview | Thermodynamics | Wind Shear | Composite Indices

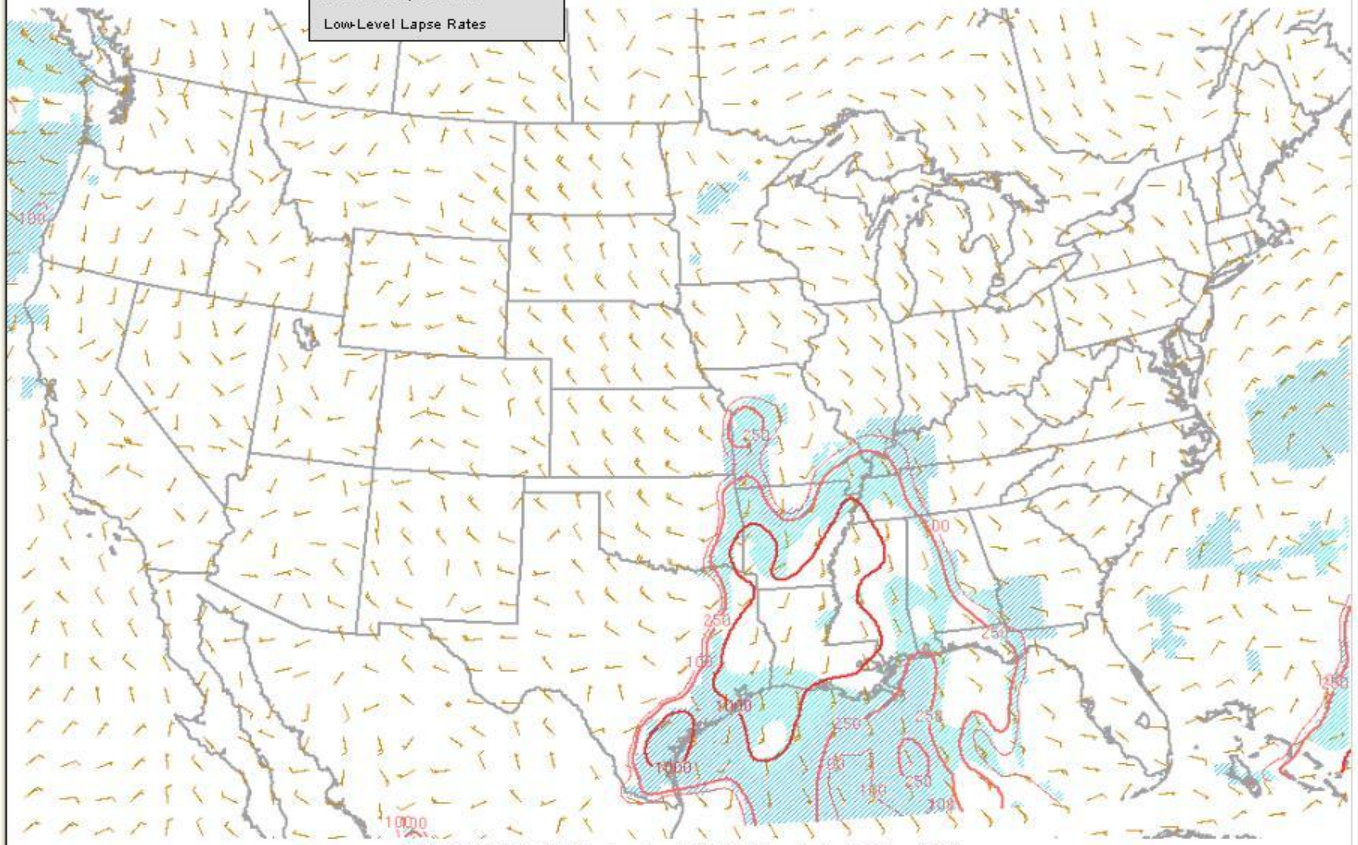
Click here to see keyboard commands.

- CAPE/CIN - Surface-Based
- CAPE/CIN - 100mb Mixed-Layer
- Midlevel Lapse Rates
- Low-Level Lapse Rates

Start Stop FRAME 15 of 2 SPEED DIRECTION REV FWD Rock DWELL Dwell sec - + 1.1 STEP < > On/Off

NOAA/NWS/Storm Prediction Center

Mesoscale Analysis Data



120123/0200 MLCAPE (contour) and MLCIN (J/kg, shaded at 25 and 100)

25 100

Double-click on this frame to see the individual image.

http://www.spc.noaa.gov/exper/archive/looper.php?date=20120122&type=mlcp

Severe Weather Preparedness Videos

- **NOAA Public Affairs in Norman** and the **Storm Prediction Center** will soon introduce **severe weather preparedness videos**
  - *Linked on the SPC Website*
  - *Available from the NOAA Weather Partners YouTube Channel*

- Some highlights from the soon to be released…

YouTube ***"What's a Watch?"***


Frequently
Asked
Questions
What's a
Watch?

CURRENT WATCH NUMBER IS: 9999 or [ ] help

Continue with watch process

TYPE	EXPIRES	TIME ZONE	REPLACES
TORNADO #9999	12/06 2100Z	CDT	NONE

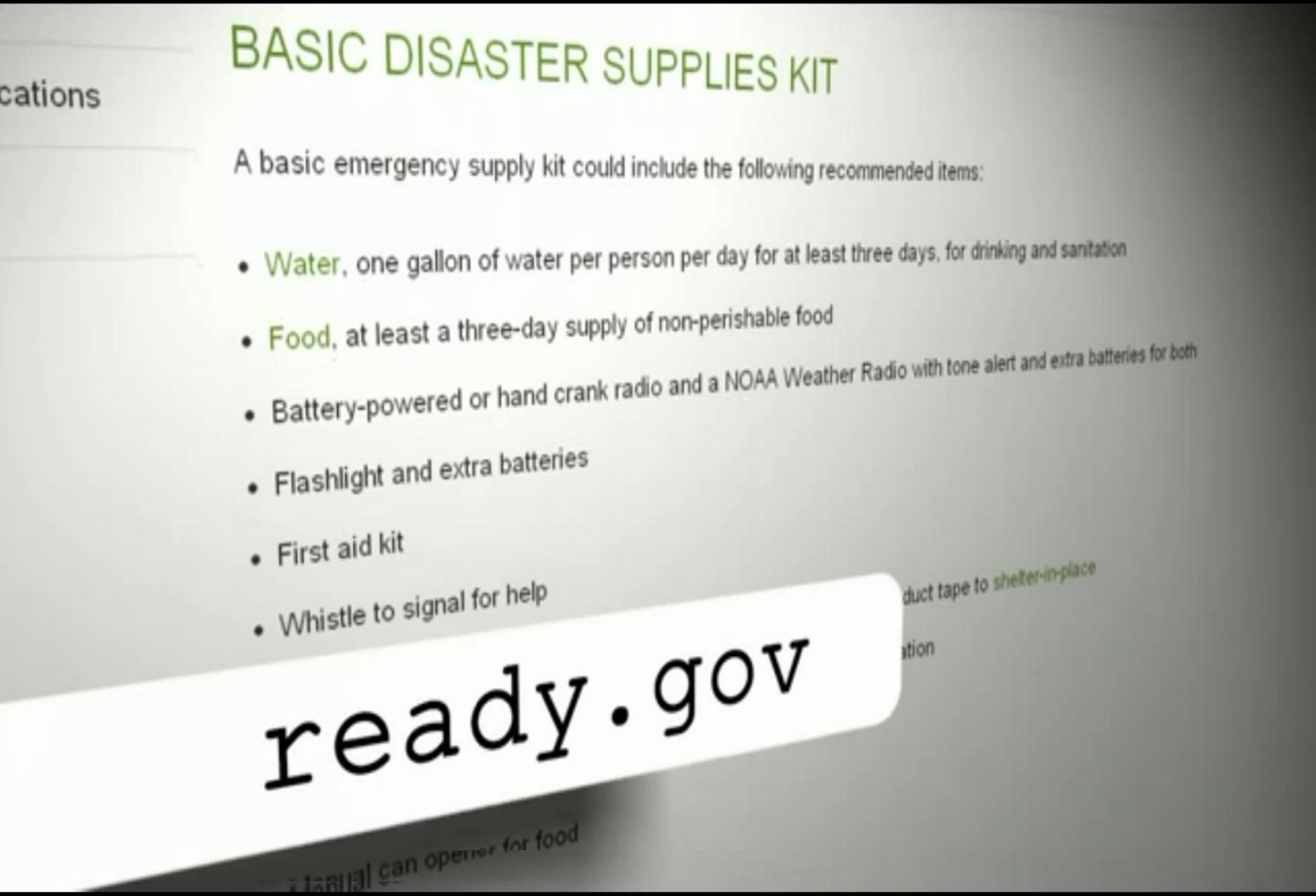
STATES

AL AR LA MS

CWA

HUN


1:15 / 2:44


cations
BASIC DISASTER SUPPLIES KIT
A basic emergency supply kit could include the following recommended items:
• Water, one gallon of water per person per day for at least three days, for drinking and sanitation
• Food, at least a three-day supply of non-perishable food
• Battery-powered or hand crank radio and a NOAA Weather Radio with tone alert and extra batteries for both
• Flashlight and extra batteries
• First aid kit
• Whistle to signal for help
duct tape to shelter-in-place
ation
ready.gov
manual can opener for food

NOAA Weather Partners Video Library

Subscribe

364 subscribers

69,072 video views

Featured | Feed | Videos

Search Channel

Weather Ready Nation Recap

by NOAAWP 2 weeks ago

60

Featured Playlists

Uploaded videos

Top Videos

National Severe Storms Lab

Videos that cover various aspects of the

About NOAA Weather Partners Video Library

norman.noaa.gov

Created by NOAAWP

(Block User | Send Message)

Latest Activity Mar 1, 2012

Date Joined Apr 1, 2009

more

Will be available on the NOAA Weather Partners YouTube Channel and the SPC Website

Acknowledgements

- *Corey Mead, John Hart, Jay Liang, Steve Weiss, and others of the SPC Staff*

- *James Murnan and Keli Tarp*

Product Updates and Service Improvements from the Storm Prediction Center (SPC)

Jared L. Guyer and Greg W. Carbin
NOAA/NWS Storm Prediction Center
Norman, OK

spc.noaa.gov

E-mail: Jared.Guyer@noaa.gov

National Severe Weather Workshop
March 1-3, 2012

Where Americas Climate and Weather Services Begin